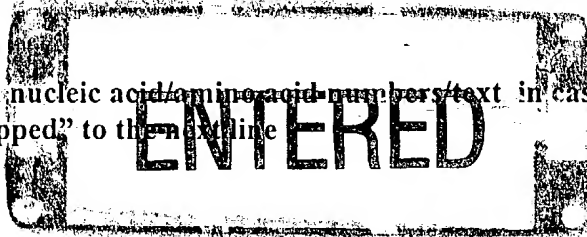1FW16

CRF Errors Edited by the STIC Systems Branch

Serial Number: 09/857,581A   CRF Edit Date: 9/20/04
                                     Edited by:/JC

_____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

✓ ENTERED

✓ Corrected the SEQ ID NO. Sequence numbers edited were:

55

_____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

_____ Inserted mandatory headings/numeric identifiers, specifically:

_____ Moved responses to same line as heading/numeric identifier, specifically:

✓ Other:
Corrected <150? response

Revised 09/09/2003

IFW16

RAW SEQUENCE LISTING   DATE: 09/20/2004
PATENT APPLICATION: US/09/857,581A   TIME: 11:40:08

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\09202004\I857581A.raw

```
    3 <110> APPLICANT: Fader, Gary M.
    4        Jung, Woosuk
    5        McGonigle, Brian
    6        Odell, Joan T.
    7        Yu, Xiaodan
    9 <120> TITLE OF INVENTION: Nucleic Acid Fragments Encoding Isoflavone Synthase
   11 <130> FILE REFERENCE: BB-1339
   13 <140> CURRENT APPLICATION NUMBER: 09/857,581A
C-->14 <141> CURRENT FILING DATE: 2001-06-05
   16 <150> PRIOR APPLICATION NUMBER: PCT/US00/01772
   17 <151> PRIOR FILING DATE: 2000-01-26
   19 <150> PRIOR APPLICATION NUMBER: 60/117769
   20 <151> PRIOR FILING DATE: 1999-01-27
   22 <150> PRIOR APPLICATION NUMBER: 60/144783
   23 <151> PRIOR FILING DATE: 1999-07-20
   25 <150> PRIOR APPLICATION NUMBER: 60/156094
   26 <151> PRIOR FILING DATE: 1999-09-24
   28 <160> NUMBER OF SEQ ID NOS: 66
   30 <170> SOFTWARE: Microsoft Office 97
   32 <210> SEQ ID NO: 1
   33 <211> LENGTH: 1756
   34 <212> TYPE: DNA
   35 <213> ORGANISM: Glycine max
   37 <400> SEQUENCE: 1
   38 gtaattaacc tcactcaaac tcgggatcac agaaaccaac aacagttctt gcactgaggt    60
   39 ttcacgatgt tgctggaact tgcacttggt ttgtttgtgt tagctttgtt tctgcacttg   120
   40 cgtcccacac caagtgcaaa atcaaaagca cttcgccacc tcccaaaccc tccaagccca   180
   41 aagcctcgtc ttcccttcat tggccacctt cacctcttaa aagataaact tctccactat   240
   42 gcactcatcg atctctccaa aaagcatggc cccttattct ctctctcctt cggctccatg   300
   43 ccaaccgtcg ttgcctccac ccctgagttg ttcaagctct tcctccaaac ccacgaggca   360
   44 acttccttca acacaaggtt ccaaacctct gccataagac gcctcactta cgacaactct   420
   45 gtggccatgg ttccattcgg accttactgg aagttcgtga ggaagctcat catgaacgac   480
   46 cttctcaacg ccaccaccgt caacaagctc aggcctttga ggacccaaca gatccgcaag   540
   47 ttccttaggg ttatggccca aagcgcagag gcccagaagc cccttgacgt caccgaggag   600
   48 cttctcaaat ggaccaacag caccatctcc atgatgatgc tcggcgaggc tgaggagatc   660
   49 agagacatcg ctcgcgaggt tcttaagatc ttcggcgaat acagcctcac tgacttcatc   720
   50 tggcctttga agtatctcaa ggttggaaag tatgagaaga ggattgatga catcttgaac   780
   51 aagttcgacc ctgtcgttga aagggtcatc aagaagcgcc gtgagatcgt cagaaggaga   840
   52 aagaacggag aagttgttga gggcgaggcc agcggcgtct tcctcgacac tttgcttgaa   900
   53 ttcgctgagg acgagaccat ggagatcaaa attaccaagg agcaaatcaa gggccttgtt   960
   54 gtcgacttttt tctctgcagg gacagattcc acagcggtgg caacagagtg ggcattggca  1020
   55 gagctcatca acaatcccag ggtgttgcaa aaggctcgtg aggaggtcta cagtgttgtg  1080
   56 ggcaaagata gactcgttga cgaagttgac actcaaaacc ttccttacat tagggccatt  1140
```

RAW SEQUENCE LISTING   DATE: 09/20/2004
PATENT APPLICATION: US/09/857,581A   TIME: 11:40:08

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\09202004\I857581A.raw

```
57 gtgaaggaga cattccgaat gcacccacca ctcccagtgg tcaaaagaaa gtgcacagaa 1200
58 gagtgtgaga ttaatgggta tgtgatccca gagggagcat tggttctttt caatgtttgg 1260
59 caagtaggaa gggacCccaa atactgggac agaccatcag aattccgtcc cgagaggttc 1320
60 ttagaaactg gtgctgaagg ggaagcaggg cctcttgatc ttaggggcca gcatttccaa 1380
61 ctcctcccat ttgggtctgg gaggagaatg tgccctggtg tcaatttggc tacttcagga 1440
62 atggcaacac ttcttgcatc tcttatccaa tgctttgacc tgcaagtgct gggccctcaa 1500
63 ggacaaatat tgaaaggtga tgatgccaaa gttagcatgg aagagagagc tggcctcaca 1560
64 gttccaaggg cacatagtct cgtttgtgtt ccacttgcaa ggatcggcgt tgcatctaaa 1620
65 ctcctttctt aattaagata atcatcatat acaatagtag tgtcttgcca tcgcagttgc 1680
66 ttttatgta ttcataatca tcatttcaat aaggtgtgac tggtacttaa tcaagtaatt 1740
67 aaggttacat acatgc                                                1756
69 <210> SEQ ID NO: 2
70 <211> LENGTH: 521
71 <212> TYPE: PRT
72 <213> ORGANISM: Glycine max
74 <400> SEQUENCE: 2
75 Met Leu Leu Glu Leu Ala Leu Gly Leu Phe Val Leu Ala Leu Phe Leu
76  1               5                   10                  15
78 His Leu Arg Pro Thr Pro Ser Ala Lys Ser Lys Ala Leu Arg His Leu
79              20                  25                  30
81 Pro Asn Pro Pro Ser Pro Lys Pro Arg Leu Pro Phe Ile Gly His Leu
82          35                  40                  45
84 His Leu Leu Lys Asp Lys Leu Leu His Tyr Ala Leu Ile Asp Leu Ser
85      50                  55                  60
87 Lys Lys His Gly Pro Leu Phe Ser Leu Ser Phe Gly Ser Met Pro Thr
88 65                  70                  75                  80
90 Val Val Ala Ser Thr Pro Glu Leu Phe Lys Leu Phe Leu Gln Thr His
91                  85                  90                  95
93 Glu Ala Thr Ser Phe Asn Thr Arg Phe Gln Thr Ser Ala Ile Arg Arg
94              100                 105                 110
96 Leu Thr Tyr Asp Asn Ser Val Ala Met Val Pro Phe Gly Pro Tyr Trp
97          115                 120                 125
99 Lys Phe Val Arg Lys Leu Ile Met Asn Asp Leu Leu Asn Ala Thr Thr
100      130                 135                 140
102 Val Asn Lys Leu Arg Pro Leu Arg Thr Gln Gln Ile Arg Lys Phe Leu
103 145                 150                 155                 160
105 Arg Val Met Ala Gln Ser Ala Glu Ala Gln Lys Pro Leu Asp Val Thr
106                  165                 170                 175
108 Glu Glu Leu Leu Lys Trp Thr Asn Ser Thr Ile Ser Met Met Met Leu
109              180                 185                 190
111 Gly Glu Ala Glu Glu Ile Arg Asp Ile Ala Arg Glu Val Leu Lys Ile
112          195                 200                 205
114 Phe Gly Glu Tyr Ser Leu Thr Asp Phe Ile Trp Pro Leu Lys Tyr Leu
115      210                 215                 220
117 Lys Val Gly Lys Tyr Glu Lys Arg Ile Asp Asp Ile Leu Asn Lys Phe
118 225                 230                 235                 240
120 Asp Pro Val Val Glu Arg Val Ile Lys Lys Arg Arg Glu Ile Val Arg
121                  245                 250                 255
123 Arg Arg Lys Asn Gly Glu Val Val Glu Gly Glu Ala Ser Gly Val Phe
```

```
124              260                265                270
126 Leu Asp Thr Leu Leu Glu Phe Ala Glu Asp Glu Thr Met Glu Ile Lys
127          275                280                285
129 Ile Thr Lys Glu Gln Ile Lys Gly Leu Val Val Asp Phe Phe Ser Ala
130      290                295                300
132 Gly Thr Asp Ser Thr Ala Val Ala Thr Glu Trp Ala Leu Ala Glu Leu
133 305                310                315                320
135 Ile Asn Asn Pro Arg Val Leu Gln Lys Ala Arg Glu Glu Val Tyr Ser
136              325                330                335
138 Val Val Gly Lys Asp Arg Leu Val Asp Glu Val Asp Thr Gln Asn Leu
139              340                345                350
141 Pro Tyr Ile Arg Ala Ile Val Lys Glu Thr Phe Arg Met His Pro Pro
142          355                360                365
144 Leu Pro Val Val Lys Arg Lys Cys Thr Glu Glu Cys Glu Ile Asn Gly
145      370                375                380
147 Tyr Val Ile Pro Glu Gly Ala Leu Val Leu Phe Asn Val Trp Gln Val
148 385                390                395                400
150 Gly Arg Asp Pro Lys Tyr Trp Asp Arg Pro Ser Glu Phe Arg Pro Glu
151              405                410                415
153 Arg Phe Leu Glu Thr Gly Ala Glu Gly Glu Ala Gly Pro Leu Asp Leu
154              420                425                430
156 Arg Gly Gln His Phe Gln Leu Leu Pro Phe Gly Ser Gly Arg Arg Met
157          435                440                445
159 Cys Pro Gly Val Asn Leu Ala Thr Ser Gly Met Ala Thr Leu Leu Ala
160      450                455                460
162 Ser Leu Ile Gln Cys Phe Asp Leu Gln Val Leu Gly Pro Gln Gly Gln
163 465                470                475                480
165 Ile Leu Lys Gly Asp Asp Ala Lys Val Ser Met Glu Glu Arg Ala Gly
166              485                490                495
168 Leu Thr Val Pro Arg Ala His Ser Leu Val Cys Val Pro Leu Ala Arg
169              500                505                510
171 Ile Gly Val Ala Ser Lys Leu Leu Ser
172      515                520
174 <210> SEQ ID NO: 3
175 <211> LENGTH: 27
176 <212> TYPE: DNA
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Oligonucleotide Primer
182 <400> SEQUENCE: 3
183 cgggatccat gcaaccggaa accgtcg                                27
185 <210> SEQ ID NO: 4
186 <211> LENGTH: 32
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Oligonucleotide Primer
193 <400> SEQUENCE: 4
194 ccggaattct caccaaacat cacggaggta tc                          32
```

RAW SEQUENCE LISTING   DATE: 09/20/2004
PATENT APPLICATION: **US/09/857,581A**   TIME: 11:40:08

        Input Set : **A:\PTO.AMC.txt**
        Output Set: **N:\CRF4\09202004\I857581A.raw**

196 <210> SEQ ID NO: 5
197 <211> LENGTH: 47
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Oligonucleotide Primer
204 <400> SEQUENCE: 5
205 tcaaggagaa aaaaccccgg atccatgttg ctggaacttg cacttgg   47
207 <210> SEQ ID NO: 6
208 <211> LENGTH: 35
209 <212> TYPE: DNA
210 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: Oligonucleotide Primer
215 <400> SEQUENCE: 6
216 ggccagtgaa ttgtaatacg actcactata gggcg   35
218 <210> SEQ ID NO: 7
219 <211> LENGTH: 24
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Sequence:PCR primer
226 <400> SEQUENCE: 7
227 aaaattagcc tcacaaaagc aaag   24
229 <210> SEQ ID NO: 8
230 <211> LENGTH: 27
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: PCR primer
237 <400> SEQUENCE: 8
238 atataaggat tgatagttta tagtagg   27
240 <210> SEQ ID NO: 9
241 <211> LENGTH: 1824
242 <212> TYPE: DNA
243 <213> ORGANISM: Glycine max
245 <400> SEQUENCE: 9
246 ggaaaattag cctcacaaaa gcaaagatca aacaaaccaa ggacgagaac acgatgttgc   60
247 ttgaacttgc acttggttta ttggttttgg ctctgtttct gcacttgcgt cccacacccca   120
248 ctgcaaaatc aaaagcactt cgccatctcc caaacccacc aagcccaaag cctcgtcttc   180
249 ccttcatagg acaccttcat ctcttaaaag acaaacttct ccactacgca ctcatcgacc   240
250 tctccaaaaa acatggtccc ttattctctc tctactttgg ctccatgcca accgttgttg   300
251 cctccacacc agaattgttc aagctcttcc tccaaacgca cgaggcaact tccttcaaca   360
252 caaggttcca aacctcagcc ataagacgcc tcacctatga tagctcagtg gccatggttc   420
253 ccttcggacc ttactggaag ttcgtgagga agctcatcat gaacgacctt cccaacgcca   480
254 ccactgtaaa caagttgagg cctttgagga cccaacagac ccgcaagttc cttagggtta   540
255 tggcccaagg cgcagaggca cagaagcccc ttgacttgac cgaggagctt ctgaaatgga   600
256 ccaacagcac catctccatg atgatgctcg gcgaggctga ggagatcaga gacatcgctc   660
257 gcgaggttct taagatcttt ggcgaataca gcctcactga cttcatctgg ccattgaagc   720

```
258 atctcaaggt tggaaagtat gagaagagga tcgacgacat cttgaacaag ttcgaccctg  780
259 tcgttgaaag ggtcatcaag aagcgccgtg agatcgtgag gaggagaaag aacggagagg  840
260 ttgttgaggg tgaggtcagc ggggtttttcc ttgacacttt gcttgaattc gctgaggatg  900
261 agaccatgga gatcaaaatc accaaggacc acatcgaggg tcttgttgtc gactttttct  960
262 cggcaggaac agactccaca gcggtggcaa cagagtgggc attggcagaa ctcatcaaca 1020
263 atcctaaggt gttggaaaag gctcgtgagg aggtctacag tgttgtggga aaggacagac 1080
264 ttgtggacga agttgacact caaaaccttc cttacattag agcaatcgtg aaggagacat 1140
265 tccgcatgca cccgccactc ccagtggtca aaagaaagtg cacagaagag tgtgagatta 1200
266 atggatatgt gatcccagag ggagcattga ttctcttcaa tgtatggcaa gtaggaagag 1260
267 accccaaata ctgggacaga ccatcggagt tccgtcctga gaggttccta gagacagggg 1320
268 ctgaagggga agcagggcct cttgatctta ggggacaaca ttttcaactt ctcccatttg 1380
269 ggtctgggag gagaatgtgc cctggagtca atctggctac ttcgggaatg gcaacacttc 1440
270 ttgcatctct tattcagtgc ttcgacttgc aagtgctggg tccacaagga cagatattga 1500
271 agggtggtga cgccaaagtt agcatggaag agagagccgg cctcactgtt ccaagggcac 1560
272 atagtcttgt ctgtgttcca cttgcaagga tcggcgttgc atctaaactc ctttcttaat 1620
273 taagatcatc atcatatata atatttactt tttgtgtgtt gataatcatc atttcaataa 1680
274 ggtctcgttc atctactttt tatgaagtat ataagccctt ccatgcacat tgtatcatct 1740
275 cccatttgtc ttcgtttgct acctaaggca atcttttttt ttttagaatc acatcatcct 1800
276 actataaact atcaatcctt atat                                        1824
```

278 <210> SEQ ID NO: 10
279 <211> LENGTH: 521
280 <212> TYPE: PRT
281 <213> ORGANISM: Glycine max
283 <400> SEQUENCE: 10
284 Met Leu Leu Glu Leu Ala Leu Gly Leu Leu Val Leu Ala Leu Phe Leu
285 1   5   10   15
287 His Leu Arg Pro Thr Pro Thr Ala Lys Ser Lys Ala Leu Arg His Leu
288   20   25   30
290 Pro Asn Pro Pro Ser Pro Lys Pro Arg Leu Pro Phe Ile Gly His Leu
291   35   40   45
293 His Leu Leu Lys Asp Lys Leu Leu His Tyr Ala Leu Ile Asp Leu Ser
294   50   55   60
296 Lys Lys His Gly Pro Leu Phe Ser Leu Tyr Phe Gly Ser Met Pro Thr
297 65   70   75   80
299 Val Val Ala Ser Thr Pro Glu Leu Phe Lys Leu Phe Leu Gln Thr His
300   85   90   95
302 Glu Ala Thr Ser Phe Asn Thr Arg Phe Gln Thr Ser Ala Ile Arg Arg
303   100   105   110
305 Leu Thr Tyr Asp Ser Ser Val Ala Met Val Pro Phe Gly Pro Tyr Trp
306   115   120   125
308 Lys Phe Val Arg Lys Leu Ile Met Asn Asp Leu Pro Asn Ala Thr Thr
309   130   135   140
311 Val Asn Lys Leu Arg Pro Leu Arg Thr Gln Gln Thr Arg Lys Phe Leu
312 145   150   155   160
314 Arg Val Met Ala Gln Gly Ala Glu Ala Gln Lys Pro Leu Asp Leu Thr
315   165   170   175
317 Glu Glu Leu Leu Lys Trp Thr Asn Ser Thr Ile Ser Met Met Met Leu
318   180   185   190
320 Gly Glu Ala Glu Glu Ile Arg Asp Ile Ala Arg Glu Val Leu Lys Ile

```
RAW SEQUENCE LISTING ERROR SUMMARY        DATE: 09/20/2004
PATENT APPLICATION:  US/09/857,581A        TIME: 11:40:09

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\09202004\I857581A.raw
```

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:66; Xaa Pos.  10,16,23,25,39,48,60,73,74,95,96,102,110,112,117,118,121
Seq#:66; Xaa Pos.  122,124,129,147,159,162,166,170,175,183,187,191,209,219
Seq#:66; Xaa Pos.  223,253,259,263,264,268,272,285,292,293,294,301,306,311
Seq#:66; Xaa Pos.  312,325,328,329,334,342,377,381,385,387,393,394,402,404
Seq#:66; Xaa Pos.  413,422,428,429,435,447,453,459,485
```

VERIFICATION SUMMARY   DATE: 09/20/2004
PATENT APPLICATION: **US/09/857,581A**   TIME: 11:40:09

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\09202004\I857581A.raw**

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:3458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:0
M:341 Repeated in SeqNo=66

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖

IFW16

```
        RAW SEQUENCE LISTING                    DATE: 09/17/2004
        PATENT APPLICATION:  US/09/857,581A     TIME: 09:54:37

        Input Set : A:\BB1339 corrected sequence listing.txt
        Output Set: N:\CRF4\09172004\I857581A.raw

   3 <110> APPLICANT: Fader, Gary M.
   4        Jung, Woosuk
   5        McGonigle, Brian
   6        Odell, Joan T.
   7        Yu, Xiaodan
   9 <120> TITLE OF INVENTION: Nucleic Acid Fragments Encoding Isoflavone Synthase
  11 <130> FILE REFERENCE: BB-1339
  13 <140> CURRENT APPLICATION NUMBER: 09/857,581A
C--> 14 <141> CURRENT FILING DATE: 2001-06-05
  16 <150> PRIOR APPLICATION NUMBER: PCT/US00/01772
  17 <151> PRIOR FILING DATE: 2000-01-26
  19 <150> PRIOR APPLICATION NUMBER: 60/117769
  20 <151> PRIOR FILING DATE: 1999-01-27
  22 <150> PRIOR APPLICATION NUMBER: 60/144783
  23 <151> PRIOR FILING DATE: 1999-07-20
  25 <150> PRIOR APPLICATION NUMBER: 60/156094
  26 <151> PRIOR FILING DATE: 1999-09-24
  28 <160> NUMBER OF SEQ ID NOS: 66
  30 <170> SOFTWARE: Microsoft Office 97
```

Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES

```
2561 <210> SEQ ID NO: 55
2562 <211> LENGTH: 499
2563 <212> TYPE: PRT
2564 <213> ORGANISM: Lupinus albus
E--> 2566 <400> SEQUENCE: (49)55 <- change to
2567 Phe Leu His Leu Arg Pro Thr Pro Thr Ala Lys Ser Lys Ala Leu Arg
2568  1               5                  10                  15
2570 His Leu Pro Asn Pro Pro Ser Pro Lys Pro Arg Leu Pro Phe Ile Gly
2571               20                  25                  30
2573 His Leu His Leu Leu Lys Asp Lys Leu Leu His Tyr Ala Leu Ile Asp
2574            35                  40                  45
2576 Leu Ser Lys Lys His Gly Pro Leu Phe Ser Leu Tyr Phe Gly Ser Met
2577         50                  55                  60
2579 Pro Thr Val Val Ala Ser Thr Pro Glu Leu Phe Lys Leu Phe Leu Gln
2580  65                  70                  75                  80
2582 Thr His Glu Ala Thr Ser Phe Asn Thr Arg Phe Gln Thr Ser Ala Ile
2583                     85                  90                  95
2585 Arg Arg Leu Thr Tyr Asp Ser Ser Val Ala Arg Val Pro Phe Gly Pro
2586               100                 105                 110
2588 Tyr Trp Lys Phe Val Arg Lys Leu Ile Met Asn Asp Leu Leu Asn Ala
```

```
2589          115                120                125
2591 Thr Thr Val Asn Lys Leu Arg Pro Leu Arg Thr Gln Gln Ile Arg Lys
2592      130                135                140
2594 Phe Leu Arg Val Met Ala Gln Gly Ala Glu Ala Gln Lys Pro Leu Asp
2595 145                150                155                160
2597 Leu Thr Glu Glu Leu Leu Lys Trp Thr Asn Ser Thr Ile Ser Met Met
2598                165                170                175
2600 Met Leu Gly Glu Ala Glu Glu Ile Arg Asp Ile Ala Arg Glu Val Leu
2601              180                185                190
2603 Lys Ile Phe Gly Glu Tyr Ser Leu Thr Asp Phe Ile Trp Pro Leu Lys
2604          195                200                205
2606 His Leu Lys Val Gly Lys Tyr Glu Lys Arg Ile Asp Asp Ile Leu Asn
2607      210                215                220
2609 Lys Phe Asp Pro Val Val Glu Arg Val Ile Lys Lys Arg Arg Glu Ile
2610 225                230                235                240
2612 Val Arg Arg Arg Lys Asn Gly Glu Val Val Glu Gly Glu Val Ser Gly
2613                245                250                255
2615 Val Leu Leu Asp Thr Leu Leu Glu Phe Ala Glu Asp Glu Thr Met Glu
2616                260                265                270
2618 Ile Lys Ile Thr Lys Asp His Ile Lys Gly Leu Val Val Asp Phe Phe
2619          275                280                285
2621 Ser Ala Gly Thr Asp Ser Thr Ala Val Ala Thr Glu Trp Ala Leu Ala
2622      290                295                300
2624 Glu Leu Ile Asn Asn Pro Lys Val Leu Glu Arg Ala Arg Glu Glu Val
2625 305                310                315                320
2627 Tyr Ser Val Val Gly Lys Asp Arg Leu Val Asp Glu Val Asp Thr Gln
2628                325                330                335
2630 Asn Leu Pro Tyr Ile Arg Ala Ile Val Lys Glu Thr Phe Arg Met His
2631          340                345                350
2633 Pro Pro Leu Pro Val Val Lys Arg Lys Cys Thr Glu Glu Cys Glu Ile
2634          355                360                365
2636 Asn Gly Tyr Val Ile Pro Glu Gly Ala Leu Ile Leu Phe Asn Val Trp
2637      370                375                380
2639 Gln Val Gly Arg Asp Pro Lys Tyr Trp Asp Arg Pro Ser Glu Phe Arg
2640 385                390                395                400
2642 Pro Glu Arg Phe Leu Glu Thr Glu Ala Glu Gly Glu Ala Arg Pro Leu
2643                405                410                415
2645 Asp Leu Arg Gly Gln His Phe Gln Leu Leu Pro Phe Gly Ser Gly Arg
2646                420                425                430
2648 Arg Met Cys Pro Gly Val Ile Leu Ala Thr Ser Gly Met Ala Thr Leu
2649          435                440                445
2651 Leu Ala Ser Leu Ile Gln Cys Phe Asp Leu Gln Val Leu Gly Pro Gln
2652      450                455                460
2654 Gly Gln Ile Leu Lys Gly Gly Asp Ala Lys Val Ser Met Glu Glu Arg
2655 465                470                475                480
2657 Ala Gly Leu Thr Val Pro Arg Ala His Ser Leu Val Cys Val Pro Leu
2658                485                490                495
2660 Ala Arg Ile
```

VERIFICATION SUMMARY   DATE: 09/17/2004
PATENT APPLICATION: **US/09/857,581A**   TIME: 09:54:39

Input Set : **A:\BB1339 corrected sequence listing.txt**
Output Set: **N:\CRF4\09172004\I857581A.raw**

```
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:2566 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:55 differs:49
L:3458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:0
L:3461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:16
L:3464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:32
L:3467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:48
L:3470 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:64
L:3473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:80
L:3476 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:96
L:3479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:112
L:3482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:128
L:3485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:144
L:3488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:160
L:3491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:176
L:3497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:208
L:3503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:240
L:3506 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:256
L:3509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:272
L:3512 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:288
L:3515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:304
L:3518 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:320
L:3521 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:336
L:3527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:368
L:3530 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:384
L:3533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:400
L:3536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:416
L:3539 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:432
L:3542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:448
L:3548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:480
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